


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Application Number	10/021,741
Filing Date	December 12, 2001
First Named Inventor	Porunellor A. Mathew, et al.
Group Art Unit	1645
Examiner Name	unknown
Attorney Docket Number	UNT-0004 (120746.00004)

Sheet	1	of	3
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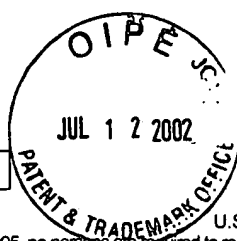
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### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
KA L		COFFEY, A.J. ET AL., HOST RESPONSE TO EBV INFECTION IN X-LINKED LYMPHOPROLIFERATIVE DISEASE RESULTS FROM MUTATIONS IN AN SH2-DOMAIN ENCODING GENE, Nature Genetics, Volume 20, Pages 129-135, October 20, 1998	
		DAVIS, S.J., ET AL., CD2 AND THE NATURE OF PROTEIN INTERACTIONS MEDIATING CELL-CELL RECOGNITION, Immunological Reviews, Volume 163, Pages 217-236, 1998	
		KATO, KAZUNORI, ET AL., CD48 IS A COUNTER-RECEPTOR FOR MOUSE CD2 AND IS INVOLVED IN T CELL ACTIVATION, J. Exp. Med., Volume 176, Pages 1241-1249, November 1992	
		KUMARESAN, PAPPANAICKEN R., ET AL., STRUCTURE OF THE HUMAN NATURAL KILLER CELL RECEPTOR 2B4 GENE AND IDENTIFICATION OF A NOVEL ALTERNATIVE TRANSCRIPT, Immunogenetics, August 18, 2000	
		MATHEW, PORUNELLOR A., ET AL., CLONING AND CHARACTERIZATION OF THE 2B4 GENE ENCODING A MOLECULE ASSOCIATED WITH NON-MHC-RESTRICTED KILLING MEDIATED BY ACTIVATED NATURAL KILLER CELLS AND T CELLS, The Journal of Immunology, Volume 151, Pages 5328-5337, November 15, 1993	
		SAYOS, J., ET AL., THE X-LINKED LYMPHOPROLIFERATIVE-DISEASE GENE PRODUCT SAP REGULATES SIGNALS INDUCED THROUGH THE CO-RECEPTOR SLAM, Nature, Volume 395, Pages 462-469, October 1, 1998	
		SEWELL, WILLIAM A., ET AL., THE HUMAN LFA-3 GENE IS LOCATED AT THE SAME CHROMOSOME BAND AS THE GENE FOR ITS RECEPTOR CD2, Immunogenetics, Volume 28, Pages 278-282, 1988	
		SMITH, GLENN M., DETECTION OF A SOLUBLE FORM OF THE LEUKOCYTE SURFACE ANTIGEN CD48 IN PLASMA AND ITS ELEVATION IN PATIENTS WITH LYMPHOID LEUKEMIAS AND ARTHRITIS, Journal of Clinical Immunology, Volume 17, Pages 502-509, 1997	
		STEPP, SUSAN E., ET AL., GENE STRUCTURE OF THE MURINE NK CELL RECEPTOR 2B4: PRESENCE OF TWO ALTERNATIVELY SPLICED ISOFORMS WITH DISTINCT CYTOPLASMIC DOMAINS, Eur. J. Immunol., Volume 29, Pages 2392-2399, 1999	
		TANGYE, STUART G., ET AL., CUTTING EDGE: HUMAN 2B4, AN ACTIVATING NK CELL RECEPTOR, RECRUITS THE PROTEIN TYROSINE PHOSPHATASE SHP-2 AND THE ADAPTOR SIGNALING PROTEIN SAP, The Journal of Immunology, Volume 162, Pages 6981-6985, June 15, 1999	
		VAN DER MERWE, P. ANTON, ET AL., HUMAN CELL-ADHESION MOLECULE CD2 BINDS CD58 (LFA-3) WITH A VERY LOW AFFINITY AND AN EXTREMELY FAST DISSOCIATION RATE BUT DOES NOT BIND CD48 OR CD59, Biochemistry, Volume 33, Pages 10149-10160, 1994	

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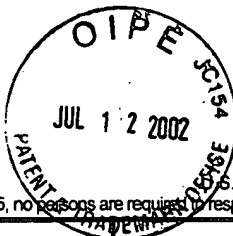
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KAL		VAN DER MERWE, P. ANTON, ET AL., THE NH <sub>2</sub> -TERMINAL DOMAIN OF RAT CD2 BINDS RAT CD48 WITH A LOW AFFINITY AND BINDING DOES NOT REQUIRE GLYCOSYLATION OF CD2, Eur. J. Immunol., Volume 23, Pages 1373-1377, 1993	
		WEISS, A., ET AL., SIGNAL TRANSDUCTION BY LYMPHOCYTE ANTIGEN RECEPTORS, Cell, Volume 76, Pages 263-274, January 28, 1994	
		VITA, C., ET AL., NOVEL MINIPROTEINS ENGINEERED BY THE TRANSFER OF ACTIVE SITES TO SMALL NATURAL SCAFFOLDS, Biopolymers, Volume 47, Pages 93-100, 1998	
		WEISSHOFF, H., ET AL, MIMICRY OF BETA II-TURNS OF PROTEINS IN CYCLIC PENTAPEPTIDES WITH ONE AND WITHOUT D-AMINO ACIDS, Eur. J. Biochem., Volume 259, Pages 776-788, 1999	
		JOHANNESSON, P., ET AL., BICYCLIC TRIPEPTIDE MIMETICS WITH REVERSE TURN INDUCING PROPERTIES, J. Med. Chem., Volume 42, Pages 601-608, 1999	

Examiner Signature	<i>Karen G. Canella</i>	Date Considered	5/8/03
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